

Application No. 10/724,028
Amendment dated October 19, 2005
After Final Office Action of August 15, 2005

Docket No.: 08211/0200253-US0 (P05742)

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AMENDMENTS TO THE CLAIMS

1-7. (Canceled)

8. (Currently amended) A circuit comprising:
a first transistor;
a second transistor that is arranged to operate as a cascode transistor in cooperation
with the first transistor; and
a keeper switch circuit including three terminals that are respectively coupled to a
gate, a drain, and a source of the second transistor. ~~The circuit of Claim 6, wherein~~
the second transistor is one of a group consisting of an n-type transistor and the p-type transistor, and the keeper transistor is the other of the group consisting of the n-type transistor and the p-type transistor.

9. (Canceled)

10. (Canceled)

11. (Original) A logic circuit comprising:
a first transistor;
a second transistor that is arranged to operate as a cascode transistor in cooperation with the first transistor, wherein the second transistor includes:
a gate that is coupled to a bias node,
a drain that is coupled to a first output node, and
a source that is coupled to a second output node;
a third transistor;
a fourth transistor that is arranged to operate as a cascode transistor in cooperation with the third transistor, wherein the fourth transistor includes:
a gate that is coupled to the bias node,
a drain that is coupled to a first complement output node, and
a source that is coupled to a second complement output node,
a first keeper switch circuit that is coupled to the bias node, the second complement output node, and the second output node, and
a second keeper switch circuit that is coupled to the bias node, second output node, and the second complement output node.

12. (Original) The logic circuit of Claim 11, wherein
the second transistor is configured to receive a first cascode bias voltage at the bias node, wherein
the first cascode bias voltage is suitable for biasing a cascode transistor.

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13. (Original) The logic circuit of Claim 11, wherein the first keeper switch circuit is configured to influence a resistance between the second output node and the bias node in response to a control signal.

14. (Original) The logic circuit of Claim 11, wherein the first keeper switch circuit is configured to:
receive a control signal at the second complement output node;
couple the second output node to the bias node if the control signal corresponds to a first logic level; and
isolate the second output node from the bias node if the control signal corresponds to a second logic level.

15. (Original) The logic circuit of Claim 11, wherein the logic circuit is arranged to operate as a level shifter circuit.

16. (Previously Presented) The logic circuit of Claim 11, wherein the first keeper switch circuit comprises a keeper transistor including:
a gate that is coupled to the second complement output node,
a source that is coupled to one of a group consisting of the second output node and the bias node, and
a drain that is coupled to the other of the group consisting of the second output node and the bias node.

17. (Previously Presented) The logic circuit of Claim 16, wherein the second transistor is one of a group consisting of an n-type transistor and a p-type transistor, and the keeper transistor is the other of the group consisting of the n-type transistor and the p-type transistor.

18. (Previously Presented) The logic circuit of Claim 11, wherein the second keeper switch circuit comprises a fifth transistor including:
a gate that is coupled to the second output node,
a source that is coupled to one of a group consisting of the second complement output node and the bias node, and
a drain that is coupled to the other of the group consisting of the second complement output node and the bias node.

19. (Previously Presented) The logic circuit as in Claim 18, wherein the first keeper switch circuit comprises a keeper transistor, and wherein the second transistor is one of a group consisting of an n-type transistor and a p-type transistor, the keeper transistor is the other of the group consisting of the n-type transistor and the p-type transistor, and the fifth transistor is the other of the n-type transistor and the p-type transistor.

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20. (Canceled)

21. (Canceled)

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